INDEX TO VOLUME 97

INDEX TO SUBJECTS

PAGE

Algol, Note on. *W. J. Luyten* 274

Annals of the Astrophysical Observatory of the Smithsonian Institution, Note on Dr. Sterne's Review of Volume VI of the. *C. G. Abbot* 76

Atmospheric Oxygen, Profiles in the Alpha Band of. *H. A. A. Panofsky* 180

B Stars in the Declination Zone 0° to −23°, The Radial Velocities of Faint Class. *F. J. Neubauer* 300

BD+14°3887, A Peculiar Be Star Showing Emission Lines of *Na* I, [*Fe* III], and *He* I; with a Note on the Spectrum of CD−27°11944. *J. W. Swensson* 226

27 Canis Majoris, The Radial Velocity of. *Otto Struve* 453

Cepheus, The Milky Way in. *A. Marguerite Risley* 277

Cincinnati 1244, The Variable Proper Motion of the Star. *Dirk Reuyl* 186

Clusters NGC 2126 and NGC 2194, The Galactic. *James Cuffey* 93

Continuous Spectrum of Model Stellar Atmospheres, The. *Ralph E. Williamson* . . . 51

Distribution of Stars. II, The Statistics of the Gravitational Field Arising from a Random. *S. Chandrasekhar and J. von Neumann* 1

S. Doradus as an Eclipsing Binary, The Variable Star. *Sergei Gaposchkin* 166

Dwarf M Stars Found Spectrophotometrically. *A. N. Vyssotsky* 381

Dynamical Friction. I. General Considerations: The Coefficient of Dynamical Friction. *S. Chandrasekhar* 255

Dynamical Friction. II. The Rate of Escape of Stars from Clusters and the Evidence for the Operation of Dynamical Friction. *S. Chandrasekhar* 263

Eclipsing Binary, The Variable Star S Doradus as an. *Sergei Gaposchkin* 166

Eclipsing Binary HD 193576, A Photoelectric Light-Curve for the Wolf-Rayet. *Gerald E. Kron and Katherine C. Gordon* 311

Emission-Line Intensities in Some Bright Northern Wolf-Rayet Stars, A Study of. *Lawrence H. Aller* 135

Furuhjelm 31, Corrected Position and Spectral Class of. *A. N. Vyssotsky* 77

Gadolinium Lines, Temperature Classification of. *Arthur S. King* 323

Gale, Henry Gordon. *Henry Crew* 85

U Geminorum Type Variable Stars, The Spectra of. *C. T. Elvey and H. W. Babcock* . 412

Gravitational Field Arising from a Random Distribution of Stars. II, The Statistics of the. *S. Chandrasekhar and J. von Neumann* 1

HD 15963, A New Shell Star. *W. P. Bidelman* 452

PAGE

HD 192954, The Spectrum of. *Arthur A. Broyles* 234

Herzberg Bands of O_2 in the Ultraviolet Spectrum of the Night Sky, Tentative Identifications of the. *P. Swings* 72

Interstellar H and K Lines in Fifty Stars, The Structure of. *Walter S. Adams* . . . 105

Light-Curve of Nova Puppis, Visual. *Gerard P. Kuiper* 443

Light-Curve for the Wolf-Rayet Eclipsing Binary HD 193576, A Photoelectric. *Gerald E. Kron and Katherine C. Gordon* 311

Meteorites, A Spectrographic Study of. *W. W. A. Johnson and Daniel P. Norman* . . 46

Milky Way in Cepheus, The. *A. Marguerite Risley* 277

Nebulae, The Direction of Rotation in Spiral. *Edwin Hubble* 112

Nebulae, Nuclear Emission in Spiral. *Carl K. Seyfert* 28

Nebulosity near Kepler's Nova of 1604, The Spectrum of the. *R. Minkowski* 128

Night Sky with a Photoelectric Photometer, Observations of the Light of the. *C. T. Elvey* 65

Nova Cygni 1942, The Spectrum of. *Roscoe F Sanford* 130

Nova Ophiuchi of 1604 as a Supernova. *W. Baade* 119

Nova Puppis, Visual Light-Curve of. *Gerard P. Kuiper* 443

70 Ophiuchi, On the Existence of a Third Component in the System. *Dirk Reuyl and Erik Holmberg* 41

Peculiar Be Star Showing Emission Lines of *Na* I, [*Fe* III], and *He* I; with a Note on the Spectrum of CD−27°11944, BD+14°3887, A. *J. W. Swensson* 226

Peculiar Stars, Spectrographic Observations of. *V. P. Swings and O. Struve* 194

Planets by Lyot, Gentili, and Camichel from the Pic du Midi in 1941 and 1942, Observations of the. *Helen W. Dodson* 75

Pleione, The Spectrum of. *Otto Struve and P. Swings* 426

Profiles in the Alpha Band of Atmospheric Oxygen. *H. A. A. Panofsky* 180

Proper Motion of the Star Cincinnati 1244, The Variable. *Dirk Reuyl* 186

Proper Motion Stars. V, Notes on. *G. P. Kuiper* 275

Radial Velocities of Faint Class B Stars in the Declination Zone 0° to −23°, The. *F. J. Neubauer* 300

Radial Velocity of 27 Canis Majoris, The. *Otto Struve* 453

Reviews:

Duncan, John Charles. *Essentials of Astronomy* (C. C. Wylie) 79

Kendrew, W. G. *Weather: An Introductory Meteorology* 454

Mees, C. E. Kenneth. *The Theory of the Photographic Process* (Daniel M. Popper) . 454

Mizwa, Stephen P. *Nicholas Copernicus* (O. Struve) 276

National Geographic Society–National Bureau of Standards Solar Eclipse Expedition of 1940 to Brazil: Contributed Technical Papers of the National Geographic Society (Donald H. Menzel) 79

PAGE

Seares, F. H., F. E. Ross, and M. C. Joyner. *Magnitudes and Colors of Stars North of +80°* (Cecilia H. Payne Gaposchkin) 78

Skilling, William T., and Robert S. Richardson. *The Practical Essentials of Pre-training Navigation* (John Titus) 83

Uhler, Horace S. *Original Tables to 137 Decimal Places of Natural Logarithms for Factors of the Form $1 \pm n \cdot 10^{-p}$, Enhanced by Auxiliary Tables of Logarithms of Small Integers* 454

Rotation in Spiral Nebulae, The Direction of. *Edwin Hubble* 112

v Sagittarii in the Visual Region, The Spectrum of. *Jesse L. Greenstein* 252

τ Scorpii, Measurements in the Spectrum of. *Paul W. Merrill and Walter S. Adams* . . 98

Shell Star, HD 15963, A New. *W. P. Bidelman* 452

Spectra of U Geminorum Type Variable Stars, The. *C. T. Elvey and H. W. Babcock* . 412

Spectrographic Observations of Peculiar Stars. V. *P. Swings and O. Struve* 194

Spectrographic Study of Meteorites, A. *W. W. A. Johnson and Daniel P. Norman* . . 46

Spectrophotometric Researches of Barbier and Chalonge, The. *Jesse L. Greenstein* . . 445

Spectroscopic Binaries, Five. *Daniel M. Popper* 394

Spectrum of HD 192954, The. *Arthur A. Broyles* 234

Spectrum of HR 8731 in 1940, with an Intercomparison of the Spectra of Several Shells, The Shell. *Ralph B. Baldwin* 388

Spectrum of Model Stellar Atmospheres, The Continuous. *Ralph E. Williamson* . . . 51

Spectrum of the Nebulosity near Kepler's Nova of 1604, The. *R. Minkowski* . . . 128

Spectrum of the Night Sky, Tentative Identification of the Herzberg Bands of O_2 in the Ultraviolet. *P. Swings* 72

Spectrum of Nova Cygni 1942, The. *Roscoe F. Sanford* 130

Spectrum of Pleione, The. *Otto Struve and P. Swings* 426

Spectrum of v Sagittarii in the Visual Region, The. *Jesse L. Greenstein* 252

Spectrum of τ Scorpii, Measurements in the. *Paul W. Merrill and Walter S. Adams* . . 98

Spiral Nebulae, The Direction of Rotation in. *Edwin Hubble* 112

Spiral Nebulae, Nuclear Emission in. *Carl K. Seyfert* 28

Telluric Bands ω_1 and ω_2, Resolution of the. *Arthur Adel* 190

Wolf-Rayet Stars, A Study of Emission-Line Intensities in Some Bright Northern. *Lawrence H. Aller* 135

Wyse, Arthur Bambridge. *W. H. Wright* 89

INDEX OF AUTHORS

PAGE

ABBOT, C. G. Note on Dr. Sterne's Review of Volume VI of the *Annals of the Astrophysical Observatory of the Smithsonian Institution* 76

ADAMS, WALTER S. The Structure of Interstellar H and K Lines in Fifty Stars . . . 105

ADAMS, WALTER S., and PAUL W. MERRILL. Measurements in the Spectrum of τ Scorpii 98

ADEL, ARTHUR. Resolution of the Telluric Bands ω_1 and ω_2 190

ALLER, LAWRENCE H. A Study of Emission-Line Intensities in Some Bright Northern Wolf-Rayet Stars 135

BAADE, W. Nova Ophiuchi of 1604 as a Supernova 119

BABCOCK, H. W., and C. T. ELVEY. The Spectra of U Geminorum Type Variable Stars 412

BALDWIN, RALPH B. The Shell Spectrum of HR 8731 in 1940, with an Intercomparison of the Spectra of Several Shells 388

BARBIER and CHALONGE. Recent Progress in Astrophysics 445

BIDELMAN, W. P. HD 15963, A New Shell Star 452

BROYLES, ARTHUR A. The Spectrum of HD 192954 234

CAMICHEL, LYOT, and GENTILI. Recent Progress in Astrophysics 75

CHALONGE and BARBIER. Recent Progress in Astrophysics 445

CHANDRASEKHAR, S. Dynamical Friction. I. General Considerations: The Coefficient of Dynamical Friction 255

CHANDRASEKHAR, S. Dynamical Friction. II. The Rate of Escape of Stars from Clusters and the Evidence for the Operation of Dynamical Friction 263

CHANDRASEKHAR, S., and J. VON NEUMANN. The Statistics of the Gravitational Field Arising from a Random Distribution of Stars. II 1

CREW, HENRY. Henry Gordon Gale 85

CUFFEY, JAMES. The Galactic Clusters NGC 2126 and NGC 2194 93

DODSON, HELEN W. Observations of the Planets by Lyot, Gentili, and Camichel from the Pic du Midi in 1941 and 1942 75

ELVEY, C. T. Observations of the Light of the Night Sky with a Photoelectric Photometer 65

ELVEY, C. T., and H. W. BABCOCK. The Spectra of U Geminorum Type Variable Stars . 412

GAPOSCHKIN, CECILIA H. PAYNE. Review of: *Magnitudes and Colors of Stars North of +80°*, F. H. Sears, F. E. Ross and M. C. Joyner 78

GAPOSCHKIN, SERGEI. The Variable Star S Doradus as an Eclipsing Binary 166

GENTILI, LYOT, and CAMICHEL. Recent Progress in Astrophysics 75

PAGE

GORDON, KATHERINE C., and GERALD E. KRON. A Photoelectric Light-Curve for the Wolf-Rayet Eclipsing Binary HD 193576 311

GREENSTEIN, JESSE L. The Spectrophotometric Researches of Barbier and Chalonge . 445

GREENSTEIN, JESSE L. The Spectrum of υ Sagittarii in the Visual Region 252

HOLMBERG, ERIK, and DIRK REUYL. On the Existence of a Third Component in the System 70 Ophiuchi 41

HUBBLE, EDWIN. The Direction of Rotation in Spiral Nebulae 112

JOHNSON, W. W. A., and DANIEL P. NORMAN. A Spectrographic Study of Meteorites . 46

KING, ARTHUR S. Temperature Classification of Gadolinium Lines 323

KRON, GERALD E., and KATHERINE C. GORDON. A Photoelectric Light-Curve for the Wolf-Rayet Eclipsing Binary HD 193576 311

KUIPER, G. P. Notes on Proper-Motion Stars. V 275

KUIPER, G. P. Visual Light-Curve of Nova Puppis 443

LUYTEN, W. J. Note on Algol 274

LYOT, GENTILI, and CAMICHEL. Recent Progress in Astrophysics 75

MENZEL, DONALD H. National Geographic Society–National Bureau of Standards Solar Eclipse Expedition of 1940 to Brazil. Contributed Technical Papers of the National Geographic Society 79

MERRILL, PAUL W., and WALTER S. ADAMS. Measurements in the Spectrum of τ Scorpii 98

MINKOWSKI, R. The Spectrum of the Nebulosity near Kepler's Nova of 1604 . . . 128

NEUBAUER, F. J. The Radial Velocities of Faint Class B Stars in the Declination Zone 0° to −23° 300

NEUMANN, J. VON, and S. CHANDRASEKHAR. The Statistics of the Gravitational Field Arising from a Random Distribution of Stars. II 1

NORMAN, DANIEL P., and W. W. A. JOHNSON. A Spectrographic Study of Meteorites . 46

PANOFSKY, H. A. A. Profiles in the Alpha Band of Atmospheric Oxygen 180

POPPER, DANIEL M. Five Spectroscopic Binaries 394

POPPER, DANIEL M. Review of: *The Theory of the Photographic Process*, C. E. Kenneth Mees 454

REUYL, DIRK, and ERIK HOLMBERG. On the Existence of a Third Component in the System 70 Ophiuchi 41

REUYL, DIRK. The Variable Proper Motion of the Star Cincinnati 1244 186

RISLEY, A. MARGUERITE. The Milky Way in Cepheus 277

SANFORD, ROSCOE F. The Spectrum of Nova Cygni 1942 130

SEYFERT, CARL K. Nuclear Emission in Spiral Nebulae 28

STRUVE, O. Radial Velocity of 27 Canis Majoris 453

STRUVE, O. Review of: *Nicholas Copernicus*, Stephen P. Mizwa 276

STRUVE, O., and P. SWINGS. Spectrographic Observations of Peculiar Stars. V . . . 194

PAGE

STRUVE, O., and P. SWINGS. The Spectrum of Pleione 426

SWENSSON, J. W. BD+14°3887, A Peculiar Be Star Showing Emission Lines of *Na* I, [*Fe* III], and *He* I; with a Note on the Spectrum of CD−27°11944 226

SWINGS, P. Tentative Identification of the Herzberg Bands of O_2 in the Ultraviolet Spectrum of the Night Sky 72

SWINGS, P., and O. STRUVE. Spectrographic Observations of Peculiar Stars. V . . . 194

SWINGS, P., and O. STRUVE. The Spectrum of Pleione 426

TITUS, JOHN. Review of: *The Practical Essentials of Pre-training Navigation*, William T. Skilling and Robert S. Richardson 83

VYSSOTSKY, A. N. Corrected Position and Spectral Class of Furuhjelm 31 77

VYSSOTSKY, A. N. Dwarf M Stars Found Spectrophotometrically 381

WILLIAMSON, RALPH E. The Continuous Spectrum of Model Stellar Atmospheres . . 51

WRIGHT, W. H. Arthur Bambridge Wyse 89

WYLIE, C. C. Review of: *Essentials of Astronomy*, John Charles Duncan 79

PAGE
426
226
72
194
426
83
77
381
51
89
79